Notice of Allowability	Application No.	Applicant(s)
	10/526,211	BRUCKNER ET AL.
	Examiner	Art Unit
	Tamiko D. Bellamy	2856
	Tallino D. Bellatily	2030
The MAILING DATE of this communication appea All claims being allowable, PROSECUTION ON THE MERITS IS ( herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this apport of the appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to 3/3/05.		
2. $\boxtimes$ The allowed claim(s) is/are <u>8-13</u> .		
3. Acknowledgment is made of a claim for foreign priority und a) □ All b) □ Some* c) □ None of the:  1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. □ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives to be compared by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have greatered by the Notice of Draftsperson of the priority documents have	been received. been received in Application No uments have been received in this in of this communication to file a reply ENT of this application.  Ited. Note the attached EXAMINER's reason(s) why the oath or declaration be submitted.  On's Patent Drawing Review (PTO-	national stage application from the complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.6)		
each sheet. Replacement sheet(s) should be labeled as such in th		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F</li> </ol>		
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 3/3/05</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview Summary Paper No./Mail Dat  7. ☒ Examiner's Amendn	te

### **DETAILED ACTION**

1. Preliminary amendment dated 3/3/05 has been received and entered. Claims 1-7 have been canceled. Claims 8-13 are currently pending.

# **Drawings**

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the means for a telemetric signal tap (See claim 13) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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## **EXAMINER'S AMENDMENT**

3. Authorization for this examiner's amendment was given in a telephone interview with Edward Freedman on 6/26/06.

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- a. Claim 8, line 9, delete the word "in".
- b. Claim 8, line 10, before the word piezoresistive, change "a" to --the--.
- c. Claim 8, line 10, change the word "applied", to —fixed--.
- d. Claim 8, line 4, delete the words "particularly between 10 nm and 20  $\mu$ m".
- e. Claim 9, line 2, insert after the word "the", --thickness of the piezoresistive amorphous--.
- f. Claim 9, lines 2-3, delete the words "between 10 nm and 500  $\mu$ m".
- g. Claim 10, line 3, delete the words "the at least one".
- h. Claim 10, change the phrase "knock sensor with a seismic mass (3', 3) according to claim 8, wherein to –knock sensor according to claim 8, wherein the knock sensor includes a seismic mass;--.
- i. Claim 10, line 5, change the phrase" is or can be rigidly connected", to –is rigidly connected--.
- j. Claim 13, line 2, delete the word "that".

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# Allowable Subject Matter

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5. Claims 8-13 are allowed.

6. The following is an examiner's statement of reasons for allowance:

Re claim 8, the independent claim includes "a piezoresistive amorphous carbon layer is applied onto at least one face of the at least one spring washer "in combination with the remaining claim limitation is not taught and/or made obvious by the prior art. Haefnet et al., considered closest to related art, teaches Wheatstone bridge circuit formed by the piezoresistor elements (52,54, 56, and 58) from the underside a beam member (44). Haefnet et al. does not teach a piezoresistive amorphous carbon layer is applied onto at least one face of the at least one spring washer. Engeler et al., teaches a contact spring (25) in the hole of a contact part (26). Engeler et al. teaches that the piezoelectric disc (28) are bedded with the contact part. Engeler et al. teaches that the device can use an element working on the piezoresistive principle (Col. 5, lines 5-10). Engeler et al. does not teach a piezoresistive amorphous carbon layer is applied onto at least one face of the at least one spring washer.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamiko D. Bellamy whose telephone number is (571) 272-2190. The examiner can normally be reached on Monday - Friday 7:30 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tamiko Bellamy

June 22, 2006

DANIEL S. LARKIN PRIMARY EXAMINER